

Eltex® Superstress™ CAP311

High Density Polyethylene Copolymer

INEOS Olefins & Polymers Europe

Message:

ELTEX® Superstress™ CAP311 is a High Density Polyethylene copolymer manufactured by INEOS Olefins & Polymers Europe using its proprietary supported catalyst & process, particularly intended for the injection and compression moulding of screw caps for the packaging of beverages. It is especially suited for applications requiring excellent processability, high rigidity and enhanced stress cracking resistance. Thanks to high purity and excellent organoleptic properties it is well suited for packaging in direct contact with beverages and sensitive food.

Benefits & Features

- Very good injectability (MFR 11-like resin)
- High rigidity
- Good stress cracking resistance
- Improved rigidity/stress cracking resistance compromise
- Excellent quality controlled organoleptic properties
- Slip agent free grade

Applications

Injection Moulding and Compression Moulding of Caps & Closures for the packaging of still mineral water and slightly carbonated or pressurized beverages

General Information			
Features	High purity		
	Rigidity, high		
	High ESCR (Stress Cracking Resistance)		
	High density		
	Copolymer		
	Workability, good		
	Good sensory characteristics		
	Compliance of Food Exposure		
Uses	Packaging		
	Shield		
	Food packaging		
	Shell		
RoHS Compliance	Contact manufacturer		
Processing Method	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.960	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ¹ (40°C, 10% Igepal)	12.0	hr	Internal method
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus (23°C)	1500	MPa	ISO 527-2/1
Injection instructions			
In order to preserve the excellent organoleptic properties, it is important not to exceed a melt temperature of 250°C during processing.			
NOTE			
1.	4 bar		

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